

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P829744

Luminaire Tested: **OHBL-12SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-MCL-UNV-L735-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

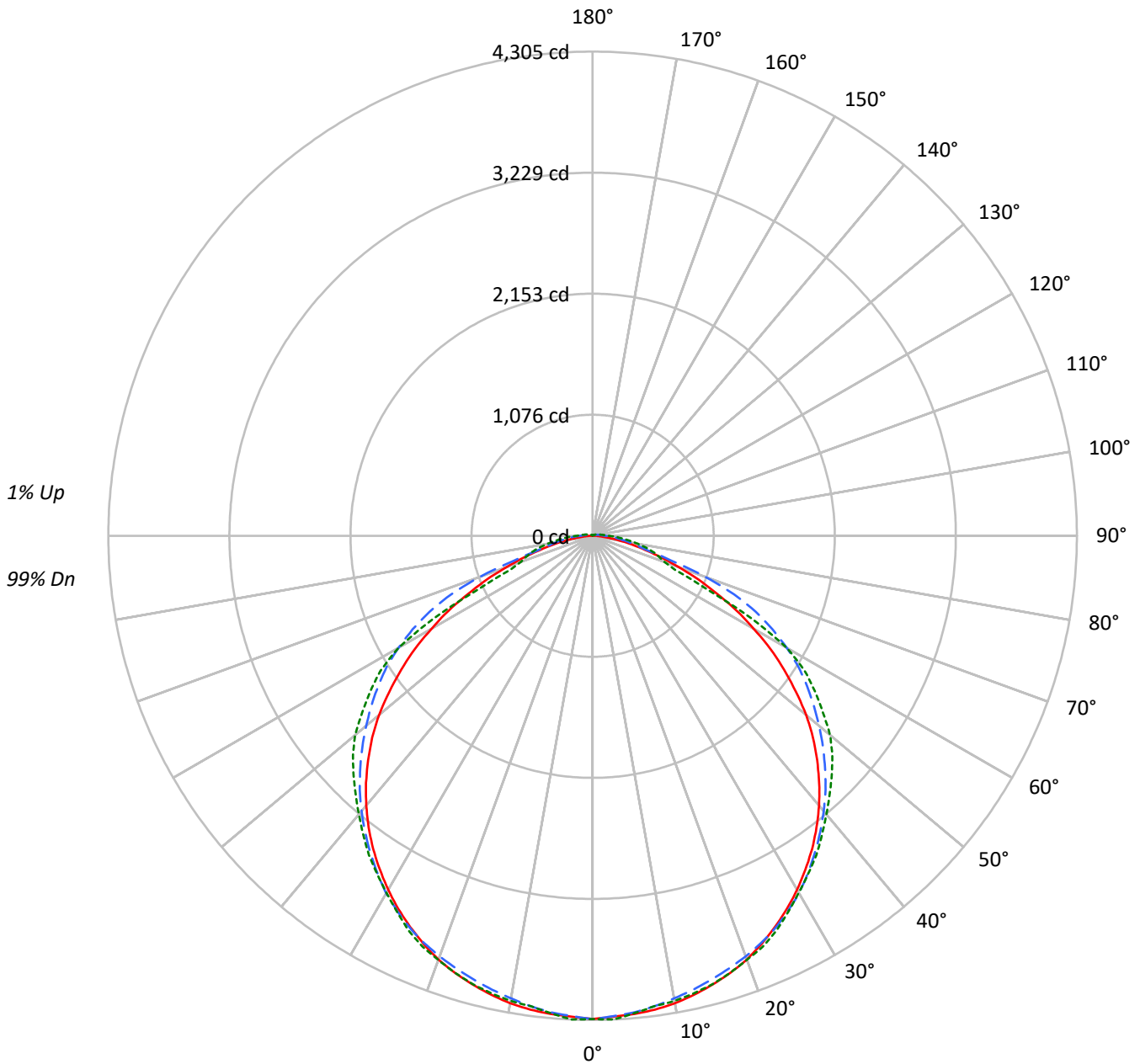
Lumens per Lamp: N/A
Luminaire Lumens: 12144.0 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13978	13978	13978
5°	13887	13693	13688
10°	13836	13406	13423
15°	13748	13172	13221
20°	13660	12996	12991
25°	13495	12817	12762
30°	13316	12581	12403
35°	13102	12253	12147
40°	12823	11914	11838
45°	12437	11530	11616
50°	11913	11100	11362
55°	11082	10663	10759
60°	9993	10070	9750
65°	8573	9087	6026
70°	6905	6925	4228
75°	5177	3974	4099
80°	3603	3136	3648
85°	2050	2618	3021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	3.3
10°-20°	1161.7	9.6
20°-30°	1774.3	14.6
30°-40°	2152.8	17.7
40°-50°	2256.4	18.6
50°-60°	2044.6	16.8
60°-70°	1370.8	11.3
70°-80°	615.6	5.1
80°-90°	223.4	1.8
90°-100°	67.2	0.6
100°-110°	31.7	0.3
110°-120°	15.9	0.1
120°-130°	8.8	0.1
130°-140°	6.0	0.0
140°-150°	4.1	0.0
150°-160°	3.0	0.0
160°-170°	1.9	0.0
170°-180°	0.6	0.0
0°-30°	3341.1	27.5
0°-40°	5494.0	45.2
0°-60°	9794.9	80.7
0°-90°	12004.7	98.9
90°-120°	114.9	0.9
90°-150°	133.7	1.1
90°-180°	139.0	1.1
0°-180°	12144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4297	4297	4297	4297	4297	
5°	4269	4284	4254	4267	4261	406
15°	4130	4114	4085	4121	4126	1166
25°	3837	3820	3847	3882	3871	1769
35°	3401	3409	3444	3480	3467	2126
45°	2822	2868	2922	2996	3006	2174
55°	2077	2177	2325	2418	2413	1854
65°	1219	1410	1600	1351	1103	1214
75°	480	696	512	524	558	524
85°	83	158	203	245	257	101
90°	1	53	105	132	138	5
95°	1	33	72	88	90	1
105°	2	14	35	43	45	3
115°	5	8	18	23	24	5
125°	4	5	11	13	14	4
135°	6	6	7	10	11	4
145°	6	6	6	7	8	4
155°	6	7	7	7	6	3
165°	7	7	7	7	7	2
175°	7	7	6	6	6	1
180°	6	6	6	6	6	



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CATALOG NUMBER: OHBL-12SE-MCL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4296.6	4296.6	4296.6	4296.6	4296.6
2.5°	4279.2	4297.2	4274.8	4299.0	4305.3
5°	4268.6	4283.5	4253.7	4266.7	4261.1
7.5°	4249.3	4254.3	4218.9	4229.5	4218.3
10°	4220.8	4218.3	4176.7	4197.2	4199.6
12.5°	4178.5	4171.1	4133.8	4164.9	4165.5
15°	4130.1	4113.9	4084.7	4120.7	4125.7
17.5°	4074.2	4053.0	4033.8	4080.4	4072.9
20°	4008.9	3984.1	3980.3	4031.3	4012.6
22.5°	3928.2	3908.9	3917.6	3966.1	3954.2
25°	3836.8	3820.1	3846.8	3882.2	3871.0
27.5°	3740.5	3730.6	3761.0	3788.4	3766.6
30°	3634.9	3629.3	3669.7	3692.1	3664.7
32.5°	3520.0	3521.9	3560.4	3590.8	3565.3
35°	3400.7	3408.8	3443.6	3480.2	3466.6
37.5°	3269.6	3287.6	3322.4	3364.1	3349.8
40°	3131.1	3157.2	3195.7	3246.0	3233.0
42.5°	2981.4	3014.3	3064.0	3119.9	3118.7
45°	2822.3	2868.3	2921.7	2996.3	3005.6
47.5°	2657.1	2708.6	2776.4	2875.8	2890.0
50°	2477.5	2542.2	2626.6	2745.9	2754.6
52.5°	2277.5	2365.7	2477.5	2591.9	2581.3
55°	2076.8	2176.9	2325.3	2418.5	2412.9
57.5°	1876.8	1989.2	2169.4	2235.9	2235.3
60°	1653.1	1795.4	1992.3	2042.7	1993.0
62.5°	1446.3	1599.1	1803.5	1766.8	1596.6
65°	1218.9	1409.6	1600.3	1350.6	1102.7
67.5°	1017.0	1215.8	1359.3	925.0	792.1
70°	813.8	1033.1	1059.9	686.5	677.2
72.5°	633.7	867.3	731.2	587.7	617.5
75°	479.6	695.8	511.9	523.7	557.9
77.5°	349.8	534.3	398.2	459.1	487.1
80°	240.4	378.3	324.9	385.8	405.1
82.5°	151.0	249.7	260.3	310.6	330.5
85°	82.6	158.4	203.1	245.4	257.2
87.5°	34.2	95.7	155.3	189.5	199.4
90°	0.6	52.8	105.0	131.7	137.9
92.5°	0.6	40.4	85.7	106.2	110.6
95°	0.6	32.9	72.1	87.6	90.1
97.5°	1.2	26.1	60.3	72.7	75.2
100°	1.9	21.7	50.3	60.9	62.7
102.5°	2.5	17.4	42.2	50.9	52.8
105°	2.5	14.3	35.4	42.9	44.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	8.7	21.1	26.7	28.0
115°	5.0	7.5	18.0	23.0	24.2
117.5°	5.0	6.2	15.5	19.3	20.5
120°	5.0	5.6	13.7	16.8	17.4
122.5°	5.0	5.0	11.8	14.9	15.5
125°	4.3	5.0	11.2	13.0	13.7
127.5°	5.0	5.0	9.9	11.8	12.4
130°	5.0	5.6	8.7	11.2	11.2
132.5°	5.6	6.2	8.1	10.6	10.6
135°	5.6	6.2	6.8	9.9	10.6
137.5°	6.2	6.2	6.2	9.3	9.9
140°	6.2	6.2	5.6	8.1	8.7
142.5°	5.6	6.2	5.6	7.5	8.1
145°	5.6	6.2	6.2	6.8	7.5
147.5°	6.2	6.2	6.2	6.2	6.8
150°	6.2	6.2	6.2	6.2	6.2
152.5°	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.8	6.8	6.8	6.2
157.5°	6.2	6.8	6.8	6.8	6.8
160°	6.2	6.8	6.8	6.8	6.8
162.5°	6.8	6.8	6.8	6.8	6.8
165°	6.8	6.8	6.8	6.8	6.8
167.5°	6.8	7.5	6.8	6.8	6.8
170°	6.8	6.8	6.8	6.2	6.2
172.5°	6.8	6.8	6.8	6.2	6.2
175°	6.8	6.8	6.2	5.6	5.6
177.5°	7.5	6.8	6.2	5.6	5.0
180°	6.2	6.2	6.2	6.2	6.2



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	3.1	11.8	30.4	36.7	37.9
110°	3.7	9.9	25.5	31.1	32.3



(END OF REPORT)